

551,161

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/089550 A1

(51) International Patent Classification⁷: **B04B 9/04, 9/12**

(21) International Application Number:
PCT/SE2004/000492

(22) International Filing Date: 31 March 2004 (31.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0301029.5 8 April 2003 (08.04.2003) SE

(71) Applicant (for all designated States except US): **ALFA LAVAL CORPORATE AB** [SE/SE]; Rudeboksvägen 3, S-221 00 Lund (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PITKÄMÄKI,**

Jouko [SE/SE]; Skäcklingevägen 101, S-147 55 Tumba (SE). **SANDBLOM, Robert** [SE/SE]; Johan Skyttes Väg 289, S-125 34 Älvsjö (SE).

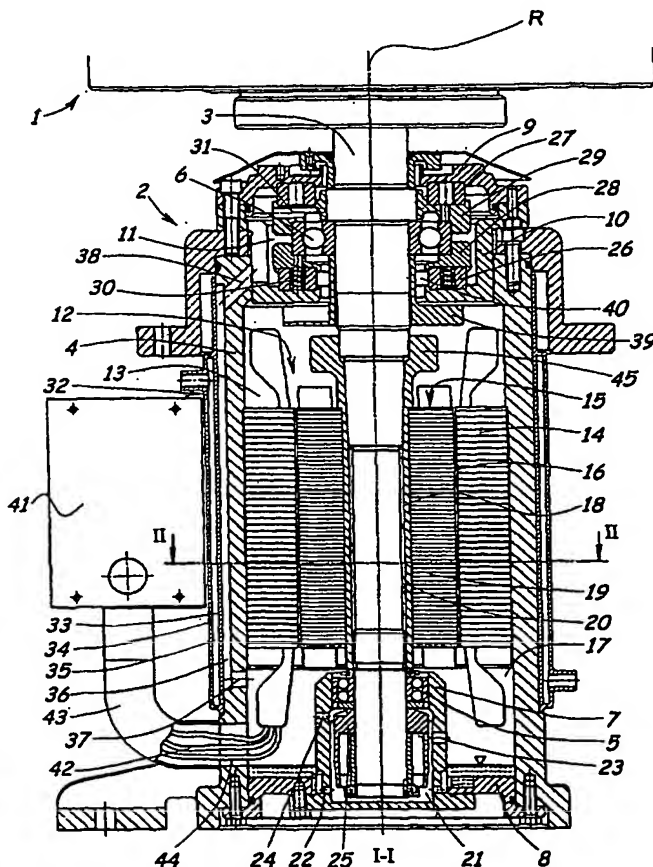
(74) Agent: **CLIVEMO, Ingemar**; Alfa Laval Corporate AB, Hans Stahles väg, S-147 80 Tumba (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: A DRIVING DEVICE FOR A CENTRIFUGAL SEPARATOR



(57) Abstract: In a centrifugal separator a centrifugal rotor (1) is connected to a vertical spindle (3), which is supported by a frame (4) and journaled in a first bearing (6) and a second bearing (5). The centrifugal separator is drivable by means of an electric motor (12), the stator (14) of the motor being fixed to the frame (4) such that it is radially immovable relative to it, whereas the rotor (15) of the motor is radially movable together with the spindle (3). The gap (16) between the rotor (15) and the stator (14) of the motor is dimensioned so that it permits the radial movability of the rotor (15).

WO 2004/089550 A1



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*